## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

#### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Typ	e Responses	)													
1. Name and Address of Reporting Person * BINGHAM H RAYMOND				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) _X_ Director10% Owner				
C/O KLA ROBLES	-TENCOF	(First)  R CORPORATIO	337 1 CO DIO	3. Date o 01/25/2			ansac	ction (Month/I	Day/Year)		Officer (give	e title below)	Other	(specify below)	
(Street)				4. If Amendment, Date Original Filed(Month/Day/Year)						_X	6. Individual or Joint/Group FilingCheck Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person				
	E, CA 951		(7: )												
(City	")	(State)	(Zip)			1	Γable	e I - Non-Deri	vative Securitie	s Acquire	d, Disposed	of, or Benef	ficially Owner	l	
(Instr. 3)		2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date, i any (Month/Day/Year		Date, if	Code (Inst	e (A r. 8) (I	Securities Acquain A) or Disposed constr. 3, 4 and 5)  (A) or (D)	of (D) Ov Tra		wing Reported ) 4)		6. 7. Nature Ownership Form: Beneficial Ownership Or Indirect (I) (Instr. 4)		
D ' 1 T		. 1. 6. 1	1 6 22 1		,	1 1	.1								
Reminder: F	Report on a s	eparate line for each	class of securities b	peneficial	ly ov	vned dir	ectly		s who respon	d to the c	ollection o	of informat	ion containe	d SEC 14	74 (9-02)
									orm are not res				form		
			Table II						osed of, or Bene nvertible securi		vned				
	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code		5. Number		6. Date Exercisable and Expiration Date (Month/Day/Year)			s		9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Security: Direct (D) or Indirect	11. Naturof Indirect Beneficia Ownershi (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option (right to buy)	\$ 44.76	01/25/2005		A		2,500		01/25/2003	5 01/25/2015	Commo	1 2.500	\$ 0	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05							11/08/2002	2 11/08/2012	Commo	110.000		10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 40.68							10/18/2004	10/18/2014	Commo	1 2.500		2,500	D	
Non- Qualified Stock Option (right to	\$ 47.23							11/09/200	1 11/09/2011	Commo	110 000		10,000	D	

Non- Qualified Stock Option (right to buy)	\$ 52.75				08/15/2000	08/15/2010	Common Stock	20,000	20,000	D	
Non- Qualified Stock Option (right to buy)	\$ 59.44				11/05/2003	11/05/2013	Common Stock	10,000	10,000	D	

### **Reporting Owners**

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
BINGHAM H RAYMOND C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X							

# Signatures

By: Stuart J. Nichols For: Raymond Bingham	01/26/2005
**Signature of Reporting Person	Date

# **Explanation of Responses:**

- \* If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.